

Recessed Square Open
PAR Lamp Downlights:
39 to 150 Watt



4" 70W
6" 150W

HRS-04155
HRS-06156

THIS PRODUCT IS NO LONGER AVAILABLE

Features

Lamp

- Designed for metal halide PAR lamps. See chart below for standard and optional wattages.
- See Option -43 and chart below for lower wattage.

Socket

- Vertical. Medium base. Pulse rated.
- Nickel-plated brass screw shell. Silicone leads. Glazed porcelain.

Reflector

- SofTex softly etched pre-anodized aluminum. Self-flanged.
- HRS-04155: Gasketed.
- Thirteen optional reflector finishes available.

Ballast Assembly:

- WhisperPack® full enclosed insulated and rated HPF pulse start ballast.

PLEASE CONSULT

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FREE QUOTATION

- Class 2, high reliability for 20 volt, 277 volt, and 480 volt.
- Capacitor and ignitor supplied.
- Dimming (-39) and electronic (-96) ballasts available. See Options.
- Cool, quiet, long-life. Silicone leads.
- Visible and easily serviced in all ceilings including dry wall.
- Fused primary. Renewable. Not for 480 volt.

Housing

- Cast aluminum housing with a removable reflector.
- Rustproof: Exceeds 1000 hour ASTM 5% salt spray test.
- UL, C-UL (Canada) Listings
- Wet, damp or dry locations, covered ceilings.
- Through-branch circuit conductors (6 #12).
- Complete standard fixture, including ballast.
- Per current NEC.

- Built-in plaster frame.

Outlet Box

- Prewired 14 GA. (NEC) galvanized steel, UL listed; with removable insulated cover.
- 1/2" and 3/4" knockouts.

Installation

- 27" galvanized hanger bars supplied (2).
- Fully adjustable universal mounting brackets supplied (2).
- Recesses indoor or outdoor in covered locations.

UL, C-UL (Canada) Listings

- Wet, damp or dry locations, covered ceilings.
- Through-branch circuit conductors (6 #12).

Three Year Limited Warranty

- Complete standard fixture, including ballast.
- Per current NEC.

Wattage / Lamp Availability and Cut-out Dimensions

Catalog No.	Designed For:				Option -43: Lower Wattage	Ceiling Cut-Out
	Standard Lamp		Optional Lamp(s)			
HRS-04155	70 PAR 30	40° MFL	10° NSP	—	39	5.25" Sq.
HRS-06156	150 PAR 38	35° MFL	20° SP	65° FL	70-100	6.75" Sq.

Options

Sources and Ballasts

- 39 Electronic dimming ballast instead for pulse start metal halide. Consult factory for wattage and voltage availability.
- 96 Regulating electronic MH ballast instead.

Wattage and Voltage

- 43 Lower wattage: See Option -43 chart above for available lower wattages. Specify voltage.
- 120 120 volt, 60 Hz. ballast.
- 277 277 volt, 60 Hz. ballast.
- 347 347 volt, 60 Hz. ballast. Consult factory for dimming or electronic.
- 97 Other voltage ballast. Consult factory.

Relays, Lamps (See Chart)

- LP With lamp. Choose standard lamp shown above or specify wattage, beam spread, style (PAR 30, PAR 38), brand and color temperature.

Reflectors and Trims (Self-flanged)

- 16 Champagne Gold specular Alzak lower reflector. (CP x 1.01)
- 30 All White lower reflector. (CP x 1.01)
- 31 White flange (only) on lower reflector.
- 32 Trim extender. Broadens trim flange O.D. by 1" to cover larger ceiling opening.
- 45 Gasket above reflector flange for HRS-06156. Stops dust streaks on ceiling.
- 62 Clear specular Alzak lower reflector. (CP x 1.04)
- 63 Dune specular Alzak lower reflector. (CP x 1.00)
- 69 Wheat specular Alzak lower reflector. (CP x 1.00)
- 71 SofTex Dune etched lower reflector. (CP x .98)
- 72 Black specular Alzak lower reflector. (CP x .90)
- 77 SofTex Pewter etched lower reflector. (CP x .95)
- 90 SofTex Champagne Gold lower reflector. (CP x .98)
- 91 SofTex Wheat etched lower reflector. (CP x .97)
- 92 Umber specular Alzak lower reflector. (CP x .95)
- 93 Pewter specular Alzak lower reflector. (CP x .97)
- 94 Custom color lower reflector instead. Consult factory.

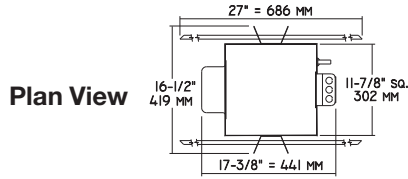
Mounting Options

- 79 Extension collar for up to 2" thick ceilings.

Other Options

- 99 Special modification. Consult factory.
- TA Top access; for servicing from above ceiling.

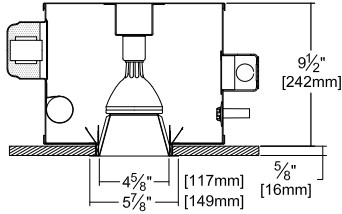
HRS-04155 HRS-06156



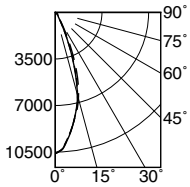
- Cone of Light Key**
- Ft.** Distance from fixture
 - FC** Footcandles (average)
 - Dia.** Circle of light at 50% of FC
 - * Dia. (in ft.) shown is where FC value is half the FC at nadir.

C.U. (Coefficients of Utilization) Tables are available on request. Please contact your Kirlin representative.

HRS-04155 70W



40° Medium Flood



Cone of Light*

Ft.	FC	Dia.
6	295.1	3.5
8	166.0	4.7
10	106.2	5.8
12	73.8	7.0
14	54.2	8.2
16	41.5	9.3

S/MH 0.6

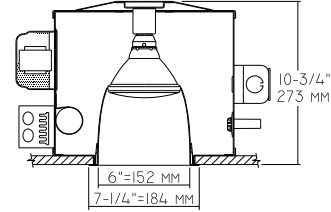
	0.0	22.5	45.0	67.5	90.0
0	10623	10623	10623	10623	10623
5	9677	9705	9705	9746	9751
15	6439	6402	6697	6628	6402
25	1803	1996	2355	2070	1794
35	386	386	419	396	386
45	230	202	161	212	230
55	92	74	51	74	92
65	37	23	18	32	37
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

EFFIC: 86.2%

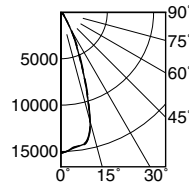
ITL TEST #51792

*LER = 44.1 •AEC = \$5.44

HRS-06156 150W



35° Medium Flood



Cone of Light*

Ft.	FC	Dia.
10	151.9	6.6
15	67.5	9.9
20	38.0	13.3
25	24.3	16.6
30	16.9	19.9
35	12.4	23.2

S/MH 0.7

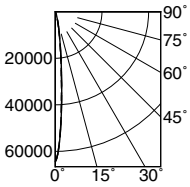
	0.0	22.5	45.0	67.5	90.0
0	15192	15192	15192	15192	15192
5	14627	14627	14627	14627	14627
15	12070	12070	12070	12070	12070
25	3942	3942	3942	3942	3942
35	991	991	991	991	991
45	496	496	496	496	496
55	275	275	275	275	275
65	126	126	126	126	126
75	47	47	47	47	47
85	16	16	16	16	16
90	0	0	0	0	0

EFFIC: 90.4%

ITL TEST #51794

*LER = 40.9 •AEC = \$5.88

10° Narrow Spot



Cone of Light*

Ft.	FC	Dia.
6	1789.9	1.0
8	1006.8	1.3
10	644.4	1.7
12	447.5	2.0
14	328.8	2.3
16	251.7	2.7

S/MH 0.2

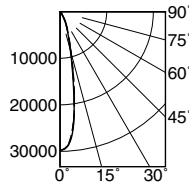
	0.0	22.5	45.0	67.5	90.0
0	64437	64437	64437	64437	64437
5	30071	30411	30861	31484	31501
15	3142	3526	3857	3610	3372
25	477	605	1086	613	521
35	238	229	207	225	238
45	132	124	172	115	132
55	53	35	26	35	44
65	35	22	18	22	35
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

EFFIC: 84.2%

ITL TEST #51793

*LER = 43.1 •AEC = \$5.57

20° Spot



Cone of Light*

Ft.	FC	Dia.
10	297.1	3.8
15	132.1	5.7
20	74.3	7.6
25	47.5	9.5
30	33.0	11.4
35	24.3	13.3

S/MH 0.4

	0.0	22.5	45.0	67.5	90.0
0	29716	29716	29716	29716	29716
5	26906	27079	27186	27320	27355
15	9197	9142	9028	8795	8566
25	3045	3155	3400	3041	2887
35	828	931	1021	887	773
45	473	442	276	430	465
55	252	209	154	209	245
65	118	87	75	87	110
75	47	47	39	43	47
85	16	12	8	8	16
90	0	0	0	0	0

EFFIC: 86.2%

ITL TEST #51795

*LER = 39.0 •AEC = \$6.16

* LER (Luminaire Efficacy Rating) = Luminaire Effic. x Total Lamp Lumens x Ballast Factor / Input Watts

• AEC = Annual Energy Cost per 1000 lumens (based on 3000 hours use @ \$0.08 KWH).

SUBMITTAL DATA

APPROVAL STAMP

JOB NAME
TYPE
WATTAGE
VOLTAGE
CATALOG NUMBER

LIMITED WARRANTY: CATALOGUED KIRLIN FIXTURES ARE WARRANTED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR THREE YEARS FROM DATE OF PURCHASE. INSTALLED TO N.E.C. IN NORMAL USE. Manufacturer at the option will replace or repair such fixture or refund the purchase price on presentation of proof of purchase and defective fixture at the office of manufacturer within three years of original shipment. Liability of manufacturer is limited to the foregoing, and manufacturer shall not be liable for any other damages, direct or indirect, sustained or suffered by or for the purchaser or any other person. This warranty is void where prohibited by law. This warranty is void where prohibited by law. This warranty is void where prohibited by law. This warranty is void where prohibited by law.

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